

MATERIAL CONDITIONAL TABLE				
CODE	CONDITION	SPECIFICATION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	MIN 1/4 HARD	AMS 5517/ 5518/5902/5519 OR ASTM A666	75	125
H0	ANNEALED	AMS 5901 OR ASTM A666	30	75
H25	1/4 HARD	AMS 5517 OR ASTM A666	75	125
H50	1/2 HARD	AMS 5518 OR ASTM A666	110	150
H75	3/4 HARD	AMS 5902 OR ASTM A666	135	175
H100	FULL HARD	AMS 5519 OR ASTM A666	140	180

NOTES: COMPRESSIVE STRENGTH VARIES SIGNIFICANTLY DEPENDING ON GRAIN DIRECTION. CARE IS REQUIRED FOR USE IN COMPRESSIVE LOAD APPLICATIONS. DESIGN VALUES ARE LOWER THAN SPECIFICATION MINIMUMS, REFER TO MMPDS.

GAUGE THICKNESS TABLE					
GAUGE	NOMINAL THICKNESS	THICKNESS RANGE	GAUGE	NOMINAL THICKNESS	THICKNESS RANGE
38	0.0062	0.0052-0.0072	21	0.0344	0.0324-0.0364
37	0.0066	0.0056-0.0076	20	0.0375	0.0345-0.0405
36	0.0070	0.0060-0.0080	19	0.0437	0.0407-0.0467
35	0.0078	0.0068-0.0088	18	0.0500	0.0470-0.0530
34	0.0086	0.0076-0.0096	17	0.0562	0.0532-0.0592
33	0.0094	0.0084-0.0104	16	0.0625	0.0595-0.0655
32	0.0102	0.0092-0.0112	15	0.0703	0.0663-0.0743
31	0.0109	0.0099-0.0119	14	0.0781	0.0741-0.0821
30	0.0125	0.0110-0.0140	13	0.0937	0.0897-0.0977
29	0.0141	0.0126-0.0156	12	0.1094	0.1044-0.1144
28	0.0156	0.0141-0.0171	11	0.1250	0.1200-0.1300
27	0.0172	0.0157-0.0187	10	0.1406	0.1356-0.1456
26	0.0187	0.0172-0.0202	9	0.1562	0.1512-0.1612
25	0.0219	0.0199-0.0239	8	0.1719	0.1659-0.1779
24	0.0250	0.0230-0.0270	7	0.1875	0.1815-0.1935
23	0.0281	0.0261-0.0301	6	0.2031	0.1971-0.2091
22	0.0312	0.0292-0.0332			

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 301 STAINLESS STEEL SHEET

SPECIFICATION: PER MATERIAL CONDITION TABLE

FINISH: UNPOLISHED NO. 2B

PART NUMBER: M301S[TT]GA-[HHH]

WHERE "TT" = GAUGE THICKNESS PER GAUGE THICKNESS REFERENCE TABLE
WHERE "HHH" = MATERIAL CONDITION PER MATERIAL CONDITION TABLE

EG.: 16 GAUGE STAINLESS STEEL SHEET 2B FINISH 1/4 HARD MINIMUM = M301S16GA
EG.: 19 GAUGE STAINLESS STEEL SHEET 2B FINISH 1/2 HARD = M301S19GA-H50

RELEASED

2021 SEP 08

H3 ECR 21-264

APPROVED

C	ADDED GAUGE NUMBERS 27 TO 38, THICKNESS RANGE UPDATE PER ASTM A480	KPT	21.09.01
C	ADDED MATERIAL CONDITION TABLE. USED MIN 1/4 HARD WHEN OMITTED SUCH AS NOT TO AFFECT EXISTING PARTS	NO	19.03.01
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED	ZF	DRAWING NO.	REV. C
MFG. APPR.	RA	M301S	SHEET 1 OF 1
APPROVED	ZF	TITLE	SCALE
DE APPR.	CP	301 SS SHEET	NTS
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